CONTENTS

JULY VOLUME 91, NUMBER 1 1994

A. Bianconi — 1 On the Fermi liquid coupled with a generalized Wigner polaronic CDW giving high T_c superconductivity

W. Graupner, M. Mauri, J. Stampfl, G. Leising, U. Scherf and K. Müllen — 7 Photo-excited and doping-induced electronic states in a poly (*para*–phenylene)-type ladder polymer

T. Mori, Y. Shimazu and S. Ikehata — 13 Magnetic susceptibility of compensated Si:P

K. Machida, T. Mitsui, T. Kato and K. Iio — 17 Ferroelectricity and structural phase transitions in a hexagonal ABX_3-type antiferromagnetic compound: $KNiCl_3$

P. K. Kahol, N. J. Pinto and B. J. McCormick — 21 Charge transport and electron localization in alkyl ring-substituted polyanilines

S. K. Ramasesha and A. K. Singh — 25 Measurement of electrical resistance across the orientational phase transition in solid C_{60} under pressure

G. Blasse, C. de Mello Donega, I. Berezovskaya and V. Dotsenko — 29 The luminescence of bismuth (III) in indium orthoborate

P. Bigenwald and B. Gil — 33 A variational calculation of light-hole envelope functions and exciton binding energies in (Ga, In)As–GaAs quantum wells

G. Bastard and J. Y. Marzin — 39 Hartree-like calculations of energy levels in quantum wires

E. B. Starikov — 45 A crystal-orbital calculation on three-dimensional crystal of TTF–TCNQ

Ts. Vassilev, I. Avramov, Ts. Velinov and S. Surnev — 49 Spectral calorimetry study of relaxation behavior of PMMA

M. L. Terranova, M. Rossi, V. Sessa and G. Vitali — 55 Development of different carbon phases during diamond film growth by CVD on glassy carbon substrates

M. Labardi, M. Allegrini, F. Leccabue, B. E. Watts, C. Ascoli and C. Frediani — 59 Scanning force and friction microscopy of ferroelectric $Pb(Zr, Ti)O_3$ thin films

P. M. Hui, W. M. Lee and N. F. Johnson — 65 Theory of scalar wave propagation in periodic composites: a $\mathbf{k}\cdot\mathbf{p}$ approach

I. G. Batirev, J. A. Leiro and M. Heinonen — 71 Atomic magnetic moment and electronic structure of Fe–B amorphous alloys based on X-ray photoelectron spectroscopy

I. E. Aronov, A. Grincwajg, M. Jonson, R. I. Shekhter and E. N. Bogachek — 75 Microwave-induced oscillations in the conductance of a mesoscopic ring

83 Errata

i Instructions for Authors on the Preparation of Camera-ready Manuscripts

vii Keywords for *Solid State Communications*

JULY VOLUME 91, NUMBER 2 1994

H. Ebert and G.-Y. Guo — 85 Calculation of magnetic X-ray dichroism (MXD) spectra using the spin polarized relativistic linear-muffin-tin-orbital method of band structure calculation

H. Saitoh, K. Saito, Y. Yamamura, H. Matsuyama, K. Kikuchi and I. Ikemoto — 89 X-ray study on structural phase transitions of 4,4″-difluoro-*p*-terphenyl and 4,4‴-difluoro-*p*-quaterphenyl

Jian-zhou Wen, Sun-qi Feng, Qing-rong Feng, Hang Yu, Xin Zhu and Bing-jun Quan — 93 Influence of the annealing atmosphere on the superconductivity in $(Pb,Sr)Sr_2(Y,Ca)Cu_2O_y$

H. Kamimura and H. Ushio — 97 Energy bands, Fermi surface and density of states in the superconducting state of $La_{2-x}Sr_xCuO_4$

E. A. Chechetkina — 101 Medium-range order in amorphous substances: a modified layer model

G. M. Gusev, U. Gennser, D. K. Maude, J. C. Portal, J. C. Rossi, D. I. Lubyshev and P. Basmaji — 105 Dephasing time and interference effects in coupled quantum wells

F. Girgsdies and R. Schöllhorn — 111 Spontaneous topotactic oxidation of La_2CoO_4 at room temperature

P. Calvani, M. Capizzi, S. Lupi, P. Maselli, A. Paolone, P. Roy, S-W. Cheong, W. Sadowski and E. Walker — 113 Polaron imprints in the infrared spectra of Nd_2CuO_{4-y}

J. Q. You, F. Nori and Y.-L. Lin — 117 Electronic structure of C_{60} and C_{70} molecules: generating function approach

A. I. Pankrats, G. A. Petrakovskii and K. A. Sablina — 121 Microwave resonance absorption in antiferromagnet Bi_2CuO_4

A. Boumriche, J. Y. Gesland, A. Bulou, M. Rousseau, J. L. Fourquet and B. Hennion — 125 Structure and dynamics of the inverted perovskite $BaLiF_3$

H. B. Rose, Ch. Roth, F. U. Hillebrecht and E. Kisker — 129 Magnetic linear dichroism in angle-resolved valence band photoemission from Fe(001)

H. C. Poon — 133 A Monte Carlo study of the surface segregation of $AuCu_3(100)$ near the order–disorder transition temperature

W. J. Song and C. Z. Yang — 141 Studies on critical properties for S - 3/2 transverse Ising model in a random field with CEA and DPIR

W. J. Song and C. Z. Yang — 145 The critical properties of spin = 3/2 Ising model with a transverse field

D. Chattopadhyay — 149 Electron mobility in $Cd_{0.8}Zn_{0.2}Te$

H.-R. Park — 153 Light-induced defect generation of *a*-Si: H at below-room-temperature

R. Girlanda and S. Savasta — 157 Polariton fusion and second harmonic generation in semiconductors

R. Matzdorf, A. Goldmann, J. Braun and G. Borstel — 163 Angle-resolved photoemission from Cu(001): influence of angular resolution on line-widths

K. Shiiki, Y. Mitsui and S. Takayanagi — 167 Analysis of magnetization structure by calculating magnetostatic energy for multilayered film

S. Jaziri — 171 Effects of electric and magnetic fields on excitons in quantum dots

i Keywords for *Solid State Communications*

JULY VOLUME 91, NUMBER 3 1994

F. Bartolomé, M. D. Kuz'min, J. Bartolomé, J. Blasco, J. García and F. Sapiña — 177 Low-temperature specific heat of $NdMO_3$ (M = Co, Fe, Cr, Ni): magnetic ordering of Nd

L. M. Sandratskii and J. Kübler — 183 Inferred physical properties of UT_2Si_2 (T = Ru, Rh, Pd) from spin-density functional calculations

R. Rahbi, B. Theys, R. Jones, B. Pajot, S. Öberg, K. Somogyi, M. L. Fille and J. Chevallier — 187 Neutralisation of group VI donors by hydrogen in gallium arsenide

Fu Huaxiang, Ye Ling and Xie Xide — 191 Optical properties for graphene microtubules of different geometries

R. Seshadri, H. N. Aiyer, A. Govindaraj and C. N. R. Rao — 195 Electron transport properties of carbon nanotubes

L. Ducasse and A. Fritsch — 201 Effect of basis set on the band structure and Fermi surface of BEDT-TTF-based organic conductors

G. P. Dai, B. Ctortecka, D. P. Tunstall, M. Jones, I. Gameson and P. P. Edwards — 205 Copper NMR studies of the $Nd_2CuO_{4-x}F_x$ system

S. A. Nikitov — 209 Nonlinear spin-wave resonance in thin ferromagnetic films

H. Zheng and K.-H. Bennemann — 213 Variational theory for the ground state of linear E–e Jahn–Teller system: weak- and intermediate-coupling

Y. D. Woo, T. W. Kang, T. W. Kim, J. Y. Lee, T. C. Kuo and K. L. Wang — 219 High-resolution transmission electron microscopy of the CoGa/GaAs heterostructure grown by molecular beam epitaxy

Z. Hu and W. B. Yelon — 223 Structural and magnetic properties of the novel $Nd_3Fe_{29-x}Ti_x$ compound from powder neutron diffraction

S. B. Roy, A. K. Pradhan and P. Chaddah — 227 Possibility of a magnetic transition in ZrV_2

K. Kempa, P. Bakshi, D. A. Broido and K. B. Blagoev — 231 Polarization of electrons in quantum dashes in magnetic field

Jian Wang, Wen-cheng Wang, Jia-biao Zheng, Fu-long Zhang, Xiao-yuan Hou, Xun Wang, He-zhou Wang and Xi-guang Zheng — 239 Temperature-dependent picosecond time-resolved carrier dynamics in visible-light-emitting porous silicon

S. W. Biernacki — 245 Microscopic structure of EL2: a new interpretation of old results

E. L. Albuquerque — 251 Plasmons in doped semiconductor superlattice with charge depletion and a capping layer

R. M. Mueller, R. Stasch and G. Bergmann — 255 Anomalous $T^{1/2}$ law of the dephasing rate in Au films down to 20 mK

P. Javorský, G. Schaudy, T. Holubar and G. Hilscher — 259 Specific heat and susceptibility of $PrNi_2$

V. S. Boyko and J. Malinsky — 265 Influence of twin boundary thin structure on the superconductive parameters of traditional and high-temperature superconductors

i Keywords for *Solid State Communications*

JULY VOLUME 91, NUMBER 4 1994

R. Pandey and A. Sutjianto — 269 Study of structural phase transition in MgSe

S. Giri, K. Ghoshray, R. Ranganathan, A. Roy, B. Bal and A. Ghoshray — 273 Frustrated spin-glass like features in $KMnFeF_6$ system

V. R. Galakhov, T. P. Surkova, V. I. Sokolov, E. Z. Kurmaev, Chr. Zubrägel, H. Ünlü, M. Neumann, S. A. Permogorov and L. N. Tenishev — 279 Transition metal impurities and band offsets in wide gap II–VI semiconductors: $Zn_{1-x}Mn_xSe$(Ni) compounds

Wang Xue-mei and Zhang Dian-lin — 283 The threshold field in $Rb_{0.30}MoO_3$

A. Bianconi and M. Missori — 287 The instability of a 2D electron gas near the critical density for a Wigner polaron crystal giving the quantum state of cuprate superconductors

P. A. Kotsanidis, J. K. Yakinthos and E. Roudaut — 295 Structure magnétique de TbPdSn à $T = 2$ K

S. Marklund and Wang Yong-Liang — 301 Influence of the 90° partial dislocation core structure in silicon on energy levels

T. Aste, R. Eggenhöffner and E. Galleani d'Agliano — 307 Effects of doping and Cu-substitution in the magnetic susceptibility of the $La_{2-x}Sr_xCu_{1-y}Zn_yO_{4+\delta}$ system

D. D. Smith, M. Wybourne, J. C. Wu, A. DeAnni, M.-L. LeMeune, R. P. Moerkirk Jr, W. H. Chang and L. Fotiadis — 313 A novel technique for the study of defects using quantum wires

T. I. Smirnova, A. I. Smirnov, R. B. Clarkson and R. L. Belford — 319 Half-field EPR transitions in synthetic carbohydrate chars

M. A. Ivanov, V. M. Loktev, V. Ya. Mitrofanov, L. D. Fal'kovskaya and A. Ya. Fishman — 325 Peculiarities in the electron structure of weakly doped fullerites A_xC_{60} ($x \ll 1$)

i Keywords for *Solid State Communications*

iii Erratum

v Author Index Nos 1–4

AUGUST VOLUME 91, NUMBER 5 1994

CONTENTS

V. V. Metlushko, M. Baert, R. Jonckheere, V. V. Moshchalkov and Y. Bruynseraede — 331 Matching effects in Pb/Ge multilayers with the lattice of submicron holes

M. Baenitz, M. Heinze, K. Lüders, H. Werner and R. Schlögl — 337 Superconductivity of Rb_2CsC_{60}: ac response and upper critical field

Feng Yan, Xi-Mao Bao and Ting Gao — 341 Photovoltage spectra of silicon/porous silicon heterojunction

S. S. Dubey, P. N. Dheer, R. G. Sharma, M. M. Krishna and Y. S. Reddy — 345 Influence of indium and tantalum as an impurity on the normal and superconducting state properties of *in situ* prepared Cu–Nb composite wires

S. N. Behera and U. A. Salian — 351 Raman scattering in cuprate superconductors: results of a finite wave vector (**q**) calculation

A. K. Bhattacharya, K. K. Mallick and P. A. Thomas — 357 Low temperature synthesis of a bismuth vanadium oxide isomorphous with γ-$Bi_4V_2O_{11}$

P. D. Wang, N. N. Ledentsov, C. M. Sotomayor Torres, S. V. Ivanov, B. Ya. Meltser and P. S. Kop'ev — 361 Resonant Raman scattering studies of multilayer (In, Ga, Al) (As, Sb) heterostructures with InAs quantum wells

M. V. Eremin and E. Sigmund — 367 On the importance of anisotropic exchange coupling on to the structure of spin-polarized clusters in layered cuprates

S. C. Bayliss, D. A. Hutt, Q. Zhang, N. Danson and A. Smith — 371 Local structure of porous silicon

N. S. Averkiev and A. M. Monakhov — 377 Size-quantization of heavy holes with large momentum in complex valence band subjected to in-plane magnetic field

J. Blasco and J. García — 381 Suppression of metal–semiconductor transition in $NdNiO_{3-\delta}$ samples doped with Cu

H. Y. Chu and Z. Ye — 387 Lattice condensations in chained polymers

E. E. Tornau, P. J. Kundrotas, S. Lapinskas and A. Rosengren — 393 Why does $Y_2Ba_4Cu_7O_{14+x}$ not exhibit a plateau in its $T_c(x)$ dependence? Predictions from oxygen ordering

V. P. Privalko, V. P. Azarenkov, A. V. Baibak and V. N. Novikov — 399 Fracton-like heat capacity behavior of heterocyclic polymer networks at low temperatures

K. Kang and B. I. Min — 403 Non-Fermi liquid behavior of a one-dimensional Hubbard model

M. Ferhat, A. Zaoui, B. Khelifa and H. Aourag — 407 Band structure calculations of Ge_xSi_{1-x}

i Keywords for *Solid State Communications*

AUGUST VOLUME 91, NUMBER 6 1994

B. Kuhn-Heinrich, W. Ossau, E. Bangert, A. Waag and G. Landwehr — 413 Zeeman pattern of semimagnetic (CdMn)Te/(CdMg)Te quantum wells in inplane magnetic fields

R. Skomski — 419 Glass transition: 'spin' fluctuations or free volume?

S. Shabalovskaya, O. Ivanova and A. Dementjev — 423 Auger spectra and electronic structure of Ti based B2 compounds

S. Bednarek and J. Adamowski — 429 Effect of short-range potential and coupling with phonons on impurity states

A. Díaz-Ortiz, F. Aguilera-Granja and J. L. Morán-López — 435 Finite size scaling in Ising thin films

M. Ya. Azbel' — 439 Superluminal velocity, tunneling traversal time and causality

K.-U. Neumann, S. Lipinski and K. R. A. Ziebeck — 443 Superweak ferrimagnetism arising from strong coupling in paramagnetic systems

A. G. Kazanskii, Mao Yi and Kong Guanglin — 447 On the dangling-bond relaxation problem in hydrogenated amorphous silicon

P. Christ, H. Biberacher, H. Müller and K. Andres — 451 Magnetization measurements on α-(BEDT-TTF)$_2$KHg(SCN)$_4$ [where BEDT-TTF is bis(ethylenedithio)tetrathiafulvalene]

R. V. Vedrinskii, A. I. Taranukhina, L. A. Bugaev and V. L. Kraizman — 457 The effect of 3*d*-electron excitation of EELFS and EXAFS above $M_{2,3}$ edge of 3*d*-transition metals

H. Bednarski, J. Cisowski, J. Voiron, D. Schmitt, J. C. Portal and J. Heimann — 461 Magnetic susceptibility of $(Cd_{1-x-y}Zn_yMn_x)_3As_2$

O. Kanert, H. Schulz and J. Albers — 465 Nuclear magnetic resonance study of the cubic-to-tetragonal phase transition in $BaTiO_3$

M. Nechtschein and F. Genoud — 471 On the broadening of the ESR line in presence of air or oxygen in conducting polymers

J. M. Dance, A. Boireau, A. Le Lirzin and B. Lestienne — 475 Site occupancy of divalent cobalt in fluorides: a powder ESR study

M. Couzi, M. Moreno and A. G. Breñosa — 481 Characterization of $NH_4Br:Cu^{2+}$ crystals: direct evidence of NH_3 through Raman spectroscopy

T. Scheunemann, S. V. Halilov, J. Henk and R. Feder — 487 Spin reversal and circular dichroism in valence-band photoemission from 3*d*-ferromagnets

S. Scholl, J. Gerschütz, H. Schäfer, F. Fischer, A. Waag and G. Landwehr — 491 Persistent photoconductivity in CdTe-based II–VI-semiconductors

i Keywords for *Solid State Communications*

AUGUST VOLUME 91, NUMBER 7 1994

I. I. Mazin, A. I. Liechtenstein, O. Gunnarsson and O. K. Andersen — 497 Three-molecular-orbital treatment of the orientational ordering in A_3C_{60}

P. Bezdicka, L. Fournès, A. Wattiaux, J. C. Grenier and M. Pouchard — 501 Mössbauer characteristics of the Sr_2CoFeO_6 perovskite obtained by electrochemical oxidation

San Shufa, Fan Yong, Tong Zhigang, Hao Chuncheng, Li Yuqing, Feng Xuebing and Lei Qingquan — 507 Electrical and magnetic properties of new polyacene quinone radical co-polymers synthesized by condensation

X. F. Wang and X. L. Lei — 513 A simple description of Fröhlich interaction in cylindrical GaAs/AlAs quantum wires

Jinfang Meng, Guangtian Zou, Qiliang Cui, Ziqiang Zhu and Zuliang Du — 519 Raman spectra and pressure-induced phase transition in nanocrystalline $PbZrO_3$

J. Odin, J. C. Lasjaunias, K. Biljaković, P. Monceau and K. Bechgaard — 523 Low temperature specific heat of the spin-density-wave compound $(TMTSF)_2PF_6$

Y. Yacoby — 529 Structure factor amplitude and phase determination by a new two beam diffraction interference method

P. Alméras, H. Berger, G. Margaritondo, Jian Ma, C. Quitmann, R. J. Kelley and M. Onellion — 535 Co-doped $Bi_2Sr_2CaCu_2O_x$: Anderson localization and superconductivity

D. Cvetko, V. De Renzi, L. Floreano, A. Morgante and F. Tommasini — 539 Deconstruction and roughening transitions on (1 × 2)Pt(1 1 0)

D. N. Mirlin, A. A. Sirenko and R. Planel — 545 Resonance Raman scattering by interface phonons in the magnetic field in GaAs/AlAs superlattices

L. Soriano, M. Abbate, D. Alders and J. M. Sanz — 551 The bremsstrahlung isochromat spectra of d^0 transition-metal oxides

A. Filipponi, M. Passacantando, L. Lozzi, S. Santucci, P. Picozzi and A. Di Cicco — 555 1*s* shake-up excitations in NaF, NaCl, NaBr, and Na_2SO_4

V. K. Kalevich, V. L. Korenev and I. A. Merkulov — 559 Nonequilibrium spin and spin flux in quantum films of GaAs-type semiconductors

Zhi-Zhong Xu — 563 A theoretical study for the bond lengths in the Ge_xSi_{1-x} alloys

R. S. Singh, T. Bhimasankaram, G. S. Kumar and S. V. Suryanarayana — 567 Dielectric and magnetoelectric properties of $Bi_5FeTi_3O_{15}$

H. Bougrine, S. Sergeenkov, M. Ausloos, R. Cloots and V. V. Gridin — 571 Nonequilibrium effects in the thermal conductivity of Bi-based high temperature superconductors

G. Saffarini — 577 On topological transitions and chemical ordering in network glasses of the Ge–Ga–S system

Al. A. Andreev, Ya. M. Blanter and Yu. E. Lozovik — 581 Microscopic theory of excitations of a quantum dot in strong magnetic field

i Keywords for *Solid State Communications*

AUGUST VOLUME 91, NUMBER 8 1994

L. F. Mattheiss, T. Siegrist and R. J. Cava — 587 Superconductivity in the $LnNi_2B_2C$ intermetallics via boron A_{1g} phonons

G. Feuˇsier, Y. Mi and R. Schaller — 591 Low temperature internal friction spectrum of calcium doped polycrystalline $YBa_2Cu_3O_{6+x}$

T. Terashima, S. Uji, H. Aoki, M. Tamura, M. Kinoshita and M. Tokumoto — 595 Three-dimensional Fermi surface in θ-(BEDT-TTF)$_2I_3$

S. Gennari, P. P. Lottici, F. Ricco', G. Attolini and C. Pelosi — 599 Raman scattering in GaAs/GaP strained heterostructures grown by MOVPE

Minglang Yan, Shengli Geng and Zheng Yang — 603 Effects of amorphous Ti underlayer on magnetic anisotropy of CoCr films

P. E. Van Camp and V. E. Van Doren — 607 Structural phase transformation and ground state properties of cadmium telluride

K. Nitsch, K. Knížek and M. Rodová — 611 X-ray diffraction study of lead chloride

J. I. Gorina, G. A. Kaljushnaia, V. I. Ktitorov, V. P. Martovitsky, V. V. Rodin, V. A. Stepanov and S. I. Vedeneev — 615 Growth from solution-melt in KCl and properties of high-quality low-T_c phase (2 2 0 1) single crystals

R. Rajaraman, B. Viswanathan and K. P. Gopinathan — 621 Critical helium concentration and its effect on bubble growth in palladium

M. Oguni, Y. Inaguma, M. Itoh and T. Nakamura — 627 Calorimetric and electrical studies on the positional disorder of lithium ions in lithium lanthanum titanate

Y. Shi, F. M. Wu, Y. D. Zheng, M. Suezawa, M. Imai and K. Sumino — 631 Optical active process of higher order bands in fast neutron irradiated silicon

C. Giannini, L. De Caro and L. Tapfer — 635 Observation of a triclinic lattice distortion of $In_xGa_{1-x}As$ (1 0 0)-oriented epitaxial layers by high-resolution double-crystal X-ray diffraction

J. Przesławski, B. Kosturek and Z. Czapla — 639 Linear birefringence studies on phase transitions in trichloroacetamide crystal

Wanqing Cao and A. J. Hunt — 645 Thermal annealing of photoluminescent Si deposited on silica aerogels

P. Basmaji, G. Surdutovich, R. Vitlina, J. Kolenda, V. S. Bagnato, H. Mohajeri-Moghaddam and N. Peyghambarian — 649 Anisotropy investigations and photoluminescence properties of porous silicon

W. G. Park, S. A. Nepijko, A. Fanelsa, E. Kisker, L. Winkeler and G. Güntherodt — 655 Temperature dependence in threshold photoemission from high-T_c-superconductors

A. I. Gusarov — 661 Efficiency of defects generation due to irradiation in silica

M. G. Patil, V. C. Mahajan, S. D. Lotke, B. V. Bhise and S. A. Patil — 667 Electrical resistivity and thermoelectric power of Ti substituted Ni–Cd ferrites

i Keywords for *Solid State Communications*

iii Author Index Nos 1–8

SEPTEMBER VOLUME 91, NUMBER 9 1994

Z. G. Liu, X. Y. Chen, J. M. Liu, Z. C. Wu and D. Feng — 671 Pulsed laser deposition of PZT/LSCO heterostructure for integrated ferroelectric devices

M. Danot, A. M. Afanasov, I. S. Bezverkhy, P. B. Fabritchnyi et J. Rouxel — 675 Etude du comportement dynamique des ions dopants a la surface et dans le volume des grains de Cr_2O_3 par spectrométrie Mössbauer de la sonde diamagnetique ^{119}Sn

S. Darracq, G. Demazeau, P. Fabritchnyi, L. Fournes, I. A. Presniakov, K. V. Pokholok et V. P. Gorkov — 681 Etude par spectrométrie Mössbauer de la perovskite $CaFe(IV)O_3$ a l'aide d'une sonde diamagnetique ^{119}Sn

M. Ya. Azbel' — 687 Critical lifetime and size in a bacteria colony survival

Qiang Sun, Jianjun Xie and Tao Zhang — 691 Impurity effect on chemisorption properties of composite catalysts

G. C. Papavassiliou, I. B. Koutselas, A. Terzis and M.-H. Whangbo — 695 Structural and electronic properties of the natural quantum-well system $(C_6H_5CH_2CH_2NH_3)_2SnI_4$

Bei Zhang, Ruo-Peng Wang, Xiao-Min Ding, Lun Dai and Shu-Min Wang — 699 Observation of laser oscillation without population inversion in InGaAsP microdisk lasers

G. Bacquet, F. Hassen, M. I. Alonso and M. Garriga — 703 Spin orientation by optical pumping in $In_xGa_{1-x}As/AlAs$ multiple quantum wells

Bin Zhu, B.-E. Mellander and B. Stjerna — 709 Infrared spectra of the rubidium nitrate alumina composites

H. Wipf — 713 The influence of long-range elastic interactions on the tetragonal-to-orthorhombic phase transition in $YBa_2Cu_3O_x$

G. Mauckner, W. Rebitzer, K. Thonke and R. Sauer — 717 Quantum confinement effects in absorption and emission of freestanding porous silicon

J. M. Jacob, D. S. Kim, A. Bouchalkha, J. J. Song, J. F. Klem, H. Hou, C. W. Tu and H. Morkoç — 721 Spatial characteristics of GaAs, GaAs-like, and AlAs-like LO phonons in $GaAs/Al_xGa_{1-x}As$ superlattices: the strong x dependence

Hai-Yang Zhou and Shi-Wei Gu — 725 Strong coupling polaron in quantum well wire

N. Mironova, V. Skvortsova and U. Ulmanis — 731 Near infrared absorption spectra in Co_3O_4

K. Schaumburg, E. Shabanova, J. P. F. Sellschop and T. Anthony — 735 Longitudinal and rotating frame spin–lattice relaxation in ^{13}C-enriched diamonds

Zuning Wang and Donglu Shi — 741 Transport resistive broadening by avalanche flux motion in high-temperature superconductors: SOC in a driven system

P. Gómez, J. Piqueras and C. Opagiste — 747 Luminescence properties of tetragonal $Tl_2Ba_2Cu_1O_{6+\delta}$ superconducting ceramics

M. Martini, G. Spinolo, A. Vedda and C. Arena — 751 Phosphorescence and thermally stimulated luminescence of amorphous SiO_2

G. Dhanaraj and H. L. Bhat — 757 X-ray diffraction and second harmonic generation studies on $KTiOPO_4$

G. Amaranath, S. Buddhudu and A. Mandelis — 761 Nonlinearity and elastic properties of Cr(3+): Al_2O_3 and Ti(3+): Al_2O_3 laser crystals

T. W. Kim and M. Jung — 765 Electron and optical phonon interaction in the two-dimensional electron gas in an $In_{0.52}Al_{0.48}As/In_{0.53}Ga_{0.47}As$ single quantum well

i Forthcoming in *Solid State Communications*

iii Keywords for *Solid State Communications*

SEPTEMBER VOLUME 91, NUMBER 10 1994

J. Chaboy, A. Marcelli, J. García, H. Maruyama, L. M. García, K. Kobayashi and L. Bozukov — 769 On the developing of net Ce magnetic moment upon H_2 absorption in $Ce_2Fe_{14}B$: an XCMD investigation

F. G. Aliev, H. El Mfarrej, S. Vieira and R. Villar — 775 Anomalous ground state of $U_{0.9}Th_{0.1}Be_{13}$: temperature dependence of the resistivity and magnetoresistance

N. Mestres, J. M. Calleja, F. G. Aliev and A. I. Belogorokhov — 779 Electron localization in the disordered conductors TiNiSn and HfNiSn observed by Raman and infrared spectroscopies

A. J. Mayur, M. D. Sciacca, I. Miotkowski, G. C. La Rocca, A. K. Ramdas and S. Rodriguez — 785 Local modes of substitutional transition metal ions in II–VI semiconductors

A. F. Carley, M. K. Rajumon, M. W. Roberts and Wang Fancheng — 791 Characterization of oxygen adsorbed at Ba-modified Zn(0001) surfaces: evidence for peroxo species

K. W. Cheah and C. H. Choy — 795 Wavelength dependence in photosynthesis of porous silicon dot

G. Chełkowska and M. Neumann — 799 Electronic structure of $Gd(Al_{1-x}Co_x)_2$ intermetallic compounds

G. Chełkowska — 803 Magnetic and electric properties of $Gd(Al_{1-x}Sb_x)_2$ and $Gd(Al_{1-x}Bi_x)_2$ compounds

J. E. Ortega, F. J. Himpsel, Dongqi Li and P. A. Dowben — 807 Initial and final state contributions to the core level shifts for Gd(0001)

A. Debernardi and S. Baroni — 813 Third-order density-functional perturbation theory: a practical implementation with applications to anharmonic couplings in Si

Liwen Wu, Lingyun Zhou, Bing Wang, Chen Gao, Wenhan Liu and Ziqin Wu — 817 Formation of Pd silicides and periodicity in sputtered Pd/Si nanometric multilayers

Z. Pajak and J. Zaleski — 821 NMR study of cation motion and phase transitions in *tris*-guanidinium hexachloroantimonate

R. B. Flippen — 825 Pulsed magnetic field effects in high temperature superconductors

M. S. Ashtikar and G. L. Sharma — 831 Silver induced formation of $Si(111)-\sqrt{3}\times\sqrt{3}$ structure from hydrogenated amorphous silicon film

G. E. Grechnev, T. Jarlborg, A. S. Panfilov, M. Peter and I. V. Svechkarev — 835 The effect of pressure on the electronic structure and magnetic susceptibility of ε-FeSi

S. A. Packiaseeli, R. K. Rajaram and N. Krishnamurthy — 839 Elastic behaviour of orthorhombic lead fluoride

B. Jagadeesh, P. K. Rajan, K. Venu and V. S. S. Sastry — 843 Order–disorder phase transition and dimethyl ammonium group dynamics in $[(CH_3)_2NH_2]_3Sb_2Cl_9$—proton NMR study

F. Masin, D. Gall and G. Gusman — 849 ^{13}C NMR spectroscopy of chloroform-solvated-C_{60}

i Keywords for *Solid State Communications*

SEPTEMBER VOLUME 91, NUMBER 11 1994

N. V. Agrinskaya and V. I. Kozub — 853 Effect of preexponential factors on temperature behavior of VRH conductivity

J. Chaboy, A. Marcelli, M. R. Ibarra and A. del Moral — 859 Electronic instability in YMn_2 driven by Ni substitution: an X-ray absorption investigation

S. Basaki and S. Matsuzaki — 865 A new charge transfer system for neutral–ionic transition: tetrathiafulvalene–dimethyldicyanoquinonediimine

H. Wang, J. Shah, T. C. Damen and L. N. Pfeiffer — 869 Polarization-dependent coherent nonlinear optical response in GaAs quantum wells: dominant effects of two-photon coherence between ground and biexciton states

P. N. Adams, P. J. Laughlin, A. P. Monkman and N. Bernhoeft — 875 A further step towards stable organic metals. Oriented films of polyaniline with high electrical conductivity and anisotropy

Yuankun Lin, Guoxiang Lan and Huafu Wang — 879 An irreversible pressure-induced amorphization in $LiTaO_3$ crystal

S. Schlag and H.-F. Eicke — 883 Size driven phase transition in nanocrystalline $BaTiO_3$

E. Hanamura — 889 Soliton-like propagation of condensed excitons

C. Petrillo and F. Sacchetti — 895 Spin-dependent correlations in electron liquids: feasibility of magnetic X-ray scattering experiment

J. H. Han, C. X. Gu and P. K. Lim — 901 EXAFS studies on Pr-doped YBCO system

T. Tsubo and K. Nasu — 907 Theory for exciton effects on light absorption spectra of f.c.c. type C_{60} crystal

T. Figielski, A. Mąkosa, T. Wosiński, P. C. Harness and K. E. Singer — 913 Electron–phonon interaction during resonant tunneling through a double-barrier heterostructure

F. J. Owens — 919 A.c. magnetic field induced microwave absorption in high temperature superconductor $Tl_2Ba_2Ca_2Cu_3O_x$

A. Bhargava, A. Williamson, M. Singh, Y. K. Vijay and I. P. Jain — 923 Influence of particle size on positron lifetimes in polycrystalline bismuth

i Keywords for *Solid State Communications*

SEPTEMBER VOLUME 91, NUMBER 12 1994

K. Le Dang, G. Dhalenne, J. P. Renard, A. Revcolevschi and P. Veillet — 927 Cu NMR study of a single crystal of the spin-Peierls compound $CuGeO_3$

M. Gurioli, J. Martinez-Pastor, A. Vinattieri and M. Colocci — 931 The Stokes shift in good quality quantum well structures

R. Ristić and E. Babić — 937 Electronic band structure and magnetic effects in ternary $Zr_2(Ni_{1-x}M_x)_1$ glassy alloys

V. I. Zubov, A. A. Caparica, N. P. Tretiakov and J. F. Sanchez Ortiz — 941 On thermodynamic properties of crystals in the metastable region

Wei-xi Chen, Peng-fei Jiao, Shu-min Wang, Ying-hua Zou, Zong-ju Xia and Ping Yuan — 945 Subpicosecond carrier lifetime in InP

Ta-Ryeong Park — 949 Photoluminescence quenching by phonons and polarons in sodium cryptand sodide

A. Pawlicka, E. C. Pereira, R. M. Faria, L. O. S. Bulhões, O. R. Nascimento and L. Walmsley — 953 Non ohmic gigahertz conductivity in pressed pellets of ClO_4^- doped poly(3-methylthiophene)

J. I. Juaristi, J. Z. Wu, J. A. Nobel, S. B. Trickey and J. R. Sabin — 957 On the metallization of the LiF monolayer

R. G. Jordan, S. L. Qiu, S. S. Cang, W. Wang and V. L. Moruzzi — 961 Local Fe moments in α- and γ-phase Fe-rich Fe–Ni alloys

F. L. Freire Jr, C. A. Achete, R. S. Brusa, G. Mariotto, X. T. Teng and A. Zecca — 965 Investigation of voids distribution in amorphous hydrogenated carbon nitride films by positron annihilation and thermal gas evolution experiments

Liu Wei, Wang Qun, X. K. Sun, Zhao Xin-guo, Zhang Zhi-dong, Xiao Qun-feng, Zhao Tong and Y. C. Chuang — 971 Structural and magnetic properties of mechanically alloyed $Sm_x(Fe_{1-y}Co_y)_{100-x}$ nitrides

T. Mohri — 975 Effective interaction energies within the pair interaction model under a dimensional constraint

Z. Czapla, J. Przesławski and H. Schlemmbach — 981 Linear birefringence studies in $[(CH_3)_2NH_2]_5Cd_3Cl_{11}$ crystal

O. Andersson and H. Suga — 985 Thermal conductivity of low-density amorphous ice

S. Iacobucci, M. Montagnoli, M. Sancrotti, G. Rossi and M. Sacchi — 989 Absorption spectroscopy at the Cu–2*p* edges in Cu/Si(111) 7×7 interface

i Keywords for *Solid State Communications*

iii Author Index Nos 1–12

AUTHOR INDEX

Abbate, M. (7) 551
Achete, C. A. (12) 965
Adamowski, J. (6) 429
Adams, P. N. (11) 875
Afanasov, A. M. (9) 675
Agrinskaya, N. V. (11) 853
Aguilera-Granja, F. (6) 435
Aiyer, H. N. (3) 195
Albers, J. (6) 465
Albuquerque, E. L. (3) 251
Alders, D. (7) 551
Aliev, F. G. (10) 775, 779
Allegrini, M. (1) 59
Alméras, P. (7) 535
Alonso, M. I. (9) 703
Amaranath, G. (9) 761
Andersen, O. K. (7) 497
Andersson, O. (12) 985
Andreev, Al. A. (7) 581
Andres, K. (6) 451
Anthony, T. (9) 735
Aoki, H. (8) 595
Aourag, H. (5) 407
Arena, C. (9) 751
Aronov, I. E. (1) 75
Ascoli, C. (1) 59
Ashtikar, M. S. (10) 831
Aste, T. (4) 307
Attolini, G. (8) 599
Ausloos, M. (7) 571
Averkiev, N. S. (5) 377
Avramov, I. (1) 49
Azarenkov, V. P. (5) 399
Azbel, M. Ya. (6) 439, (9) 687

Babić, E. (12) 937
Bacquet, G. (9) 703
Baenitz, M. (5) 337
Baert, M. (5) 331
Bagnato, V. S. (8) 649
Baibak, A. V. (5) 399
Bakshi, P. (3) 231
Bal, B. (4) 273
Bangert, E. (6) 413
Baroni, S. (10) 813
Bartolomé, F. (3) 177
Bartolomé, J. (3) 177
Basaki, S. (11) 865
Basmaji, P. (2) 105, (8) 649
Bastard, G. (1) 39
Batirev, I. G. (1) 71
Bayliss, S. C. (5) 371
Bechgaard, K. (7) 523
Bednarek, S. (6) 429
Bednarski, H. (6) 461
Behera, S. N. (5) 351
Bei Zhang (9) 699
Belford, R. L. (4) 319
Belogorokhov, A. I. (10) 779
Bennemann, K.-H. (3) 213
Berezovskaya, I. (1) 29
Berger, H. (7) 535
Bergmann, G. (3) 255
Bernhoeft, N. (11) 875
Bezdicka, P. (7) 501
Bezverkhy, I. S. (9) 675
Bhargava, A. (11) 923
Bhat, H. L. (9) 757
Bhattacharya, A. K. (5) 357
Bhimasankaram, T. (7) 567
Bhise, B. V. (8) 667
Bianconi, A. (1) 1, (4) 287
Biberacher, H. (6) 451
Biernacki, S. W. (3) 245
Bigenwald, P. (1) 33
Biljaković, K. (7) 523
Bin Zhu (9) 709
Bing Wang (10) 817

Bing-jun Quan (2) 93
Blagoev, K. B. (3) 231
Blanter, Ya. M. (7) 581
Blasco, J. (3) 177, (5) 381
Blasse, G. (1) 29
Bogachek, E. N. (1) 75
Boireau, A. (6) 475
Borstel, G. (2) 163
Bouchalkha, A. (9) 721
Bougrine, H. (7) 571
Boumriche, A. (2) 125
Boyko, V. S. (3) 265
Bozukov, L. (10) 769
Braun, J. (2) 163
Brėnosa, A. G. (6) 481
Broido, D. A. (3) 231
Brusa, R. S. (12) 965
Bruynseraede, Y. (5) 331
Buddhudu, S. (9) 761
Bugaev, L. A. (6) 457
Bulhoes, L. O. S. (12) 953
Bulou, A. (2) 125

Calleja, J. M. (10) 779
Calvani, P. (2) 113
Cang, S. S. (12) 961
Caparica, A. A. (12) 941
Capizzi, M. (2) 113
Carley, A. F. (10) 791
Cava, R. J. (8) 587
Chaboy, J. (10) 769, (11) 859
Chaddah, P. (3) 227
Chang, W. H. Jr. (4) 313
Chattopadhyay, D. (2) 149
Cheah, K. W. (10) 795
Chechetkina, E. A. (2) 101
Chełkowska, G. (10) 799, 803
Chen, X. Y. (9) 671
Chen Gao (10) 817
Cheong, S.-W. (2) 113
Chevallier, J. (3) 187
Choy, C. H. (10) 795
Christ, P. (6) 451
Chu, H. Y. (5) 387
Chuang, Y. C. (12) 971
Cisowski, J. (6) 461
Clarkson, R. B. (4) 319
Cloots, R. (7) 571
Colocci, M. (12) 931
Couzi, M. (6) 481
Ctortecka, B. (3) 205
Cvetko, D. (7) 539
Czapla, Z. (8) 639, (12) 981

Dai, G. P. (3) 205
Damen, T. C. (11) 867
Dance, J. M. (6) 475
Danot, M. (9) 675
Danson, N. (5) 371
Darracq, S. (9) 681
De Caro, L. (8) 635
De Renzi, V. (7) 539
DeAnni, A. (4) 313
Debernardi, A. (10) 813
Demazeau, G. (9) 681
Dementjev, A. (6) 423
Dhalenne, G. (12) 927
Dhanaraj, G. (9) 757
Dheer, P. N. (5) 345
Di Cicco, A. (7) 555
Díaz-Ortiz, A. (6) 435
Donglu Shi (9) 741
Dongqi Li (10) 807
Dotsenko, V. (1) 29
Dowben, P. A. (10) 807
Dubey, S. S. (5) 345
Ducasse, L. (3) 201

Ebert, H. (2) 85
Edwards, P. P. (3) 205
Eggenhöffner, R. (4) 307
Eicke, H.-F. (11) 883
Eremin, M. V. (5) 367

Fabritchnyi, P. B. (9) 675, 681
Fal'kovskaya, L. D. (4) 325
Fan Yong (7) 507
Fanelsa, A. (8) 655
Faria, R. M. (12) 953
Feder, R. (6) 487
Feng, D. (9) 671
Feng Yan (5) 341

Feng Xuebing (7) 507
Ferhat, M. (5) 407
Feusier, G. (8) 591
Figielski, T. (11) 913
Filipponi, A. (7) 555
Fille, M. L. (3) 187
Fischer, F. (6) 491
Fishman, A. Ya. (4) 325
Flippen, R. B. (10) 825
Floreano, L. (7) 539
Fotiadis, L. (4) 313
Fournes, L. (7) 501, (9) 681
Fourquet, J. L. (2) 125
Frediani, C. (1) 59
Freire, F. L. Jr. (12) 965
Fritsch, A. (3) 201
Fu Huaxiang (3) 191
Fu-long Zhang (3) 239

Galakhov, V. R. (4) 279
Gall, D. (10) 849
Galleani d'Agliano, E. (4) 307
Gameson, I. (3) 205
García, J. (3) 177, (5) 381, (10) 769
García, L. M. (10) 769
Garriga, M. (9) 703
Gennari, S. (8) 599
Gennser, U. (2) 105
Genoud, F. (6) 471
Gerschütz, J. (6) 491
Gesland, J. Y. (2) 125
Ghoshray, A. (4) 273
Ghoshray, K. (4) 273
Giannini, C. (8) 635
Gil, B. (1) 33
Girgsdies, F. (2) 111
Giri, S. (4) 273
Girlanda, R. (2) 157
Goldmann, A. (2) 163
Gómez, P. (9) 747
Gopinathan, K. P. (8) 621
Gorina, J. I. (8) 615
Gorkov, V. P. (9) 681
Govindaraj, A. (3) 195
Graupner, W. (1) 7
Grechnev, G. E. (10) 835
Grenier, J. C. (7) 501
Gridin, V. V. (7) 571
Grincajg, A. (1) 75
Gu, C. X. (11) 901
Guangtian Zou (7) 519
Gunnarsson, O. (7) 497
Güntherodt, G. (8) 655
Guo, G.-Y. (2) 85
Guoxiang Lan (11) 879
Gurioli, M. (12) 931
Gusarov, A. I. (8) 661
Gusev, G. M. (2) 105
Gusman, G. (10) 849

Hai-Yang Zhou (9) 725
Halilov, S. V. (6) 487
Han, J. H. (11) 901
Hanamura, E. (11) 889
Hang Yu (2) 93
Hao Chuncheng (7) 507
Harness, P. C. (11) 913
Hassen, F. (9) 703
Haupt, R. (1) 83
He-zhou Wang (3) 239
Heimann, J. (6) 461
Heinonen, M. (1) 71
Heinze, M. (5) 337
Henk, J. (6) 487
Hennion, B. (2) 125
Hillebrecht, F. U. (2) 129
Hilscher, G. (3) 259
Himpsel, F. J. (10) 807
Holubar, T. (3) 259
Hou, H. (9) 721
Hu, Z. (3) 223
Huafu Wang (11) 879
Hui, P. M. (1) 65
Hunt, A. J. (8) 645
Hutt, D. A. (5) 371

Iacobucci, S. (12) 989
Ibarra, M. R. (11) 859
Ikehata, S. (1) 13
Ikemoto, I. (2) 89
Ilo, K. (1) 17
Imai, M. (8) 631

Inaguma, Y. (8) 627
Itoh, M. (8) 627
Ivanov, M. A. (4) 325
Ivanov, S. V. (5) 361
Ivanova, O. (6) 423

Jacob, J. M. (9) 721
Jagadeesh, B. (10) 843
Jain, I. P. (11) 923
Jarlborg, T. (10) 835
Javorsky, P. (3) 259
Jaziri, S. (2) 171
Jia-biao Zheng (3) 239
Jian Wang (3) 239
Jian Ma (7) 535
Jian-zhou Wen (2) 93
Jianjun Xie (9) 691
Jinfang Meng (7) 519
Johnson, N. F. (1) 65
Jonckheere, R. (5) 331
Jones, M. (3) 205
Jones, R. (3) 187
Jonson, M. (1) 75
Jordan, R. G. (12) 961
Juaristi, J. I. (12) 9: 7
Jung, M. (9) 765

Kahol, P. K. (1) 21
Kalevich, V. K. (7) 559
Kaljushnaia, G. A. (8) 615
Kamimura, H. (2) 97
Kanert, O. (6) 465
Kang, K. (5) 403
Kang, T. W. (3) 219
Kato, T. (1) 17
Kazanskii, A. G. (6) 447
Kelley, R. J. (7) 535
Kempa, K. (3) 231
Khelifa, B. (5) 407
Kikuchi, K. (2) 89
Kim, D. S. (9) 721
Kim, T. W. (3) 219, (9) 765
Kinoshita, M. (8) 595
Kisker, E. (2) 129, (8) 655
Klem, J. F. (9) 721
Knížek, K. (8) 611
Kobayashi, K. (10) 769
Kolenda, J. (8) 649
Kong Guanglin (6) 447
Kop'ev, P. S. (5) 361
Korenev, V. L. (7) 559
Kosturek, B. (8) 639
Kotsanidis, P. A. (4) 295
Koutselas, I. B. (9) 695
Kozub, V. I. (11) 853
Kraizman, V. L. (6) 457
Krishna, M. M. (5) 345
Krishnamurthy, N. (10) 839
Ktitorov, V. I. (8) 615
Kübler, J. (3) 183
Kuhn-Heinrich, B. (6) 413
Kumar, G. S. (7) 567
Kundrotas, P. J. (5) 393
Kuo, T. C. (3) 219
Kurmaev, E. Z. (4) 279
Kuz'min, M. D. (3) 177

La Rocca, G. C. (10) 785
Labardi, M. (1) 59
Landwehr, G. (6) 413, 491
Lapiinskas, S. (5) 393
Lasjaunias, J. C. (7) 523
Laughlin, P. J. (11) 875
Le Lirzin, A. (6) 475
Le Dang, K. (12) 927
Leccabue, F. (1) 59
Ledentsov, N. N. (5) 361
Lee, W. M. (1) 65
Lee, J. Y. (3) 219
Lei, X,. L. (7) 513
Lei Qingquan (7) 507
Leiro, J. A. (1) 71
Leising, G. (1) 7
LeMeune, M.-L. (4) 313
Lestienne, B. (6) 475
Li Yuqing (7) 507
Liechtenstein, A. I. (7) 497
Lim, P. K. (11) 901
Lin, Y.-L. (2) 117
Lingyun Zhou (10) 817
Lipinski, S. (6) 443
Liu, Z. G. (9) 671

Liu, J. M. (9) 671
Liu Wei (12) 971
Liwen Wu (10) 817
Loktev, V. M. (4) 325
Lotke, S. D. (8) 667
Lottici, P. P. (8) 599
Lozovik, Yu. E. (7) 581
Lozzi, L. (7) 555
Lubyshev, D. I. (2) 105
Lüders, K. (5) 337
Lun Dai (9) 699
Lupi, S. (2) 113

Machida, K. (1) 17
Mahajan, V. C. (8) 667
Makosa, A. (11) 913
Malinsky, J. (3) 265
Mallick, K. K. (5) 357
Mandelis, A. (9) 761
Mao Yi (6) 447
Marcelli, A. (10) 769
Marcelli, A. (11) 859
Margaritondo, G. (7) 535
Mariotto, G. (12) 965
Marklund, S. (4) 301
Martinez-Pastor, J. (12) 931
Martini, M. (9) 751
Martovitsky, V. P. (8) 615
Maruyama, H. (10) 769
Marzin, J. Y. (1) 39
Maselli, P. (2) 113
Masin, F. (10) 849
Matsuyama, H. (2) 89
Matsuzaki, S. (11) 865
Mattheiss, L. F. (8) 587
Matzdorf, R. (2) 163
Mauckner, G. (9) 717
Maude, D. K. (2) 105
Mauri, M. (1) 7
Mayur, A. J. (10) 785
Mazin, I. I. (7) 497
McCormick, B. J. (1) 21
Mellander, B.-E. (9) 709
Mello Donega, C. de (1) 29
Meltser, B. Ya. (5) 361
Merkulov, I. A. (7) 559
Mestres, N. (10) 779
Metlushko, V. V. (5) 331
Mfarrej, H. El. (10) 775
Mi, Y. (8) 591
Min, B. I. (5) 403
Minglang Yan (8) 603
Miotkowski, I. (10) 785
Mirlin, D. N. (7) 545
Mironova, N. (9) 731
Missori, M. (4) 287
Mitrofanov, V. Ya. (4) 325
Mitsui, T. (1) 17
Mitsui, Yu. (2) 167
Moerkirk, R. P. (4) 313
Mohajeri-Moghaddam, H. (8) 649
Mohri, T. (12) 975
Monakhov, A. M. (5) 377
Monceau, P. (7) 523
Monkman, A. P. (11) 875
Montagnoli, M. (12) 989
Moral, A. del. (11) 859
Morán-López, J. L. (6) 435
Moreno, M. (6) 481
Morgante, A. (7) 539
Mori, F. (2) 117
Mori, T. (1) 13
Morkoc, H. (9) 721
Moruzzi, V. L. (12) 961
Moshchalkov, V. V. (5) 331
Mueller, R. M. (3) 255
Müllen, K. (1) 7
Müller, H. (6) 451

Nakamura, T. (8) 627
Nascimento, O. R. (12) 953
Nasu, K. (11) 907
Nechtschein, M. (6) 471
Nepiijko, S. A. (8) 655
Neumann, K.-U. (6) 443
Neumann, M. (4) 279, (10) 799
Nikitov, S. A. (3) 209
Nitsch, K. (8) 611
Nobel, J. A. (12) 957
Novikov, V. N. (5) 399

Öberg, S. (3) 187
Odin, J. (7) 523

Oguni, M. (8) 627
Onellion, M. (7) 535
Opagiste,C. (9) 747
Ortega, J. E. (10) 807
Ossau, W. (6) 413
Owens, F. J. (11) 919

Packiaseeli, S. A. (10) 839
Pajak, Z. (10) 821
Pajot, B. (3) 187
Pandey, R. (4) 269
Panfilov, A. S. (10) 835
Pankrats, A. I. (2) 121
Paolone, A. (2) 113
Papavassiliou, G. C. (9) 695
Park, W. G. (8) 655
Passacantando, M. (7) 555
Patil, M. G. (8) 667
Patil, S. A. (8) 667
Pawlicka, A. (12) 953
Pelosi, C. (8) 599
Peng-fei Jiao (12) 945
Pereira, E. C. (12) 953
Permogorov, S. A. (4) 279
Peter, M. (10) 835
Petrakovskii, G. A. (2) 121
Petrillo, C. (11) 895
Peyghambarian, N. (8) 649
Pfeiffer, L. N. (11) 867
Picozzi, P. (7) 555
Ping Yuan (12) 945
Pinto, N. J. (1) 21
Piqueras, J. (9) 747
Planel, R. (7) 545
Pokholok, K. V. (9) 681
Poon, H. C. (2) 133
Portal, J. C. (2) 105, (6) 461
Pouchard, M. (7) 501
Pradhan, A. K. (3) 227
Presniakov, I. A. (9) 681
Privalko, V. P. (5) 399
Przeslawski, J. (8) 639
Przesławski, J. (12) 981

Qiang Sun (9) 691
Qiliang Cui (7) 519
Qing-rong Feng (2) 93
Qiu, S. L. (12) 961
Quitmann, C. (7) 535

Rahbi, R. (3) 187
Rajan, P. K. (10) 843
Rajaram, R. K. (10) 839
Rajaraman, R. (8) 621
Rajumon, M. K. (10) 791
Ramasesha, S. K. (1) 25
Ramdas, A. K. (10) 785
Ranganathan, R. (4) 273
Rao, C. N. R. (3) 195
Rebitzer, W. (9) 717
Reddy, Y. S. (5) 345
Renard, J. P. (12) 927
Revcolevschi, A. (12) 927
Ricco, F. (8) 599
Ristić, R. (12) 937
Roberts, M. W. (10) 791
Rodin, V. V. (8) 615
Rodová, M. (8) 611
Rodriguez, S. (10) 785
Rose, H. B. (2) 129
Rosengren, A. (5) 393
Rossi, J. C. (2) 105
Rossi, M. (1) 55
Rossi, G. (12) 989
Roth, Ch. (2) 129
Roudaut, E. (4) 295
Rousseau, M. (2) 125
Rouxel, J. (9) 675
Roy, A. (4) 273
Roy, P. (2) 113
Roy, S. B. (3) 227
Ruo-Peng Wang (9) 699

Sabin, J. R. (12) 957
Sablina, K. A. (2) 121
Sacchetti, F. (11) 895
Sacchi, M. (12) 989
Sadowski, W. (2) 113
Saffarini, G. (7) 577
Saito, K. (2) 89
Saitoh, H. (2) 89
Salian, U. A. (5) 351

San Shufa (7) 507
Sanchez Ortiz, J. F. (12) 941
Sancrotti, M. (12) 989
Sand atskii, L. M. (3) 183
Santucci, S. (7) 555
Sanz, J. M. (7) 551
Sapina, F. (3) 177
Sastry, V. S. S. (10) 843
Sauer, R. (9) 717
Savasta, S. (2) 157
Schäfer, H. (6) 491
Schaller, R. (8) 591
Schaudy, G. (3) 259
Schaumburg, K. (9) 735
Scherf, U. (1) 7
Scheunemann, T. (6) 487
Schlag, S. (11) 883
Schlemmbach, H. (12) 981
Schlögl, R. (5) 337
Schmitt, D. (6) 461
Scholl, S. (6) 491
Schöllhorn, R. (2) 111
Schulz, H. (6) 465
Sciacca, M. D. (10) 785
Sellschop, J. P. F. (9) 735
Sergeenkov, S. (7) 571
Seshadri, R. (3) 195
Sessa, V. (1) 55
Shabalovskaya, S. (6) 423
Shabanova, E. (9) 735
Shah, J. (11) 867
Sharma, R. G. (5) 345
Sharma, G. L. (10) 831
Shekhter, R. I. (1) 75
Shengli Geng (8) 603
Shi, Y. (8) 631
Shi-Wei Gu (9) 725
Shiiki, K. (2) 167
Shimazu, Y. (1) 13
Shu-Min Wang (9) 699, (12) 945
Siegrist, T. (8) 587
Sigmund, E. (5) 367
Singer, K. E. (11) 913
Singh, R. S. (7) 567
Singh, A. K. (1) 25
Singh, M. (11) 923
Sirenko, A. A. (7) 545
Skomski, R. (6) 419
Skvortsova, V. (9) 731
Smirnov, A. I. (4) 319
Smirnova, T. I. (4) 319
Smith, A. (5) 371
Smith, D. D. (4) 313
Sokolov, V. I. (4) 279
Somogyi, K. (3) 187
Song, W. J. (2) 141, 145
Song, J. J. (9) 721
Soriano, L. (7) 551
Sotomayor Torres, C. M. (5) 361
Spinolo, G. (9) 751
Stampfl, J. (1) 7
Starikov, E. B. (1) 45
Stasch, R. (3) 255
Stepanov, V. A. (8) 615
Stjerna, B. (9) 709
Suezawa, M. (8) 631
Suga, H. (12) 985
Sumino, K. (8) 631
Sun, X. K. (12) 971
Sun-qi Feng (2) 93
Surdutovich, G. (8) 649
Surkova, T. P. (4) 279
Surnev, S. (1) 49
Suryanarayana, S. V. (7) 567
Sutjianto, A. (4) 269
Svechkarev, I. V. (10) 835

Ta-Ryeong Park (12) 949
Takayanagi, S. (2) 167
Tamura, M. (8) 595
Tao Zhang (9) 691
Tapfer, L. (8) 635
Taranukhina, A. I. (6) 457
Teng, X. T. (12) 965
Tenishev, L. N. (4) 279
Terashima, T. (8) 595
Terranova, M. L. (1) 55
Terzis, A. (9) 695
Theys, B. (3) 187
Thomas, P. A. (5) 357
Thonke, K. (9) 717
Ting Gao (5) 341

Tommasini, F. (7) 539
Tong Zhigang (7) 507
Tornau, E. E. (5) 393
Tretiakov, N. P. (12) 941
Trickey, S. B. (12) 957
Tsubo, T. (11) 907
Tu, C. W. (9) 721
Tunstall, D. P. (3) 205

Uji, S. (8) 595
Ulmanis, U. (9) 731
Ünlü, H. (4) 279
Ushio, H. (2) 97

Van Camp, P. E. (8) 607
Van Doren, V. E. (8) 607
Vassilev, T. (1) 49
Vedda, A. (9) 751
Vedeneev, S. I. (8) 615
Vedrinskii, R. V. (6) 457
Veillet, P. (12) 927
Velinov, T. (1) 49
Venu, K. (10) 843
Vieira, S. (10) 775
Vijay, Y. K. (11) 923
Villar, R. (10) 775
Vinattieri, A. (12) 931
Viswanathan, B. (8) 621
Vitali, G. (1) 55
Vitlina, R. (8) 649
Voiron, J. (6) 461

Waag, A. (6) 413, 491
Walker, E. (2) 113
Walmsley, L. (12) 953
Wang, K. L. (3) 219
Wang Yong-Liang (4) 301
Wang, X. F. (7) 513
Wang Xue-mei (4) 283
Wang, P. D. (5) 361
Wang Fancheng (10) 791
Wang, H. (11) 867
Wang Qun (12) 971
Wang, W. (12) 961
Wanqing Cao (8) 645
Wattiaux, A. (7) 501
Watts, B. E. (1) 59
Wei-xi Chen (12) 945
Wen-cheng Wang (3) 239
Wendler, L. (1) 83
Wenhan Liu (10) 817
Werner, H. (5) 337
Whangbo, M.-H. (9) 695
Williamson, A. (11) 923
Winkeler, L. (8) 655
Wipf, H. (9) 713
Woo, Y. D. (3) 219
Wosiński, T. (11) 913
Wu, J. C. (4) 313
Wu, Z. C. (9) 671
Wu, F. M. (8) 631
Wu, J. Z. (12) 957
Wybourne, M. (4) 313

Xi-guang Zheng (3) 239
Xi-Mao Bao (5) 341
Xiao Qun-feng (12) 971
Xiao-Min Ding (9) 699
Xiao-yuan Hou (3) 239
Xie Xide (3) 191
Xin Zhu (2) 93
Xun Wang (3) 239

Yacoby, Y. (7) 529
Yakinthos, J. K. (4) 295
Yamamura, Y. (2) 89
Yang, C. Z. (2) 141, 145
Yang, H. (3) 213
Ye Ling (3) 191
Ye, Z. (5) 387
Yelon, W. B. (3) 223
Ying-hua Zou (12) 945
You, J. Q. (2) 117
Yuankun Lin (11) 879

Zaleski, J. (10) 821
Zaoui, A. (5) 407
Zecca, A. (12) 965
Zhang Dian-lin (4) 283
Zhang, Q. (5) 371
Zhang Zhi-dong (12) 971
Zhao Xin-guo (12) 971

Zhao Tong (12) 971
Zheng, Y. D. (8) 631
Zheng Yang (8) 603
Zhi-Zhong Xu (7) 563
Ziebeck, K. R. A. (6) 443
Ziqiang Zhu (7) 519
Ziqin Wu (10) 817
Zong-ju Xia (12) 945
Zubov, V. I. (12) 941
Zubrägel, Chr. (4) 279
Zuliang Du (7) 519
Zuning Wang (9) 741

Typeset by Alden Multimedia Ltd, Northampton and printed by Page Bros, Norwich

Reproduced with the permission of Pergamon Press Inc., by University Microfilms Inc. Duplication or resale without permission is prohibited.